

WHAT IS CLAIMED IS:

1. A swing type multi-way switch comprising:

a box-like operation knob the top of which is closed and the bottom of which is

5 open;

a square frame-shaped holder that is disposed in the inside of said operation knob and rotatably supports the operation knob;

a case that has an outer square tube-like member and an inner square tube-like member coaxially formed, and rotatably supports said holder by a second axis for rotating
10 movement orthogonal to the axis for rotating movement of the operation knob, the side wall of the operation knob and the side wall of the holder being disposed in a groove that is formed between the outer square tube-like member and the inner square tube-like member;

a base plate on which a light source and a plurality of switch elements are to be mounted, and that supports said case, said light source and said plurality of switch elements
15 being disposed and mounted on said base plate such that when the base plate supports the case, the light source is located on substantially the central portion of the inner square tube-like member of the case as well as the plurality of switch elements are located on the outside of the inner square tube-like member of the case.

20 2. The swing type multi-way switch as set forth in claim 1, wherein

the operation knob is formed into a box-like shape of a generally square in plan, a pair of side walls opposed to each other has projections or tongues that are formed integrally therewith and hang down respectively from the lower ends of substantially the same positions of the central portions thereof, and another pair of side walls opposed to each other
25 has fitting holes formed at substantially the same positions of the central portions thereof, these fitting holes being aligned with a straight line passing through the center of the

operation knob and each fitting hole passing through the corresponding side wall;

the holder has a shape of a generally square in plan, a pair of frame components opposed to each other has fitting holes formed at substantially the same positions of the central portions thereof, these fitting holes being aligned with a straight line passing through the center of the holder and each fitting hole passing through the corresponding frame component, and another pair of frame components opposed to each other has support axes for the operation knob formed integrally therewith at substantially the same positions of the central portions thereof, each operation knob support axis fitting in the corresponding one of the fitting holes of the operation knob and projecting outwardly, the aforesaid another pair of frame components further having projections or tongues that are formed integrally therewith and hang down respectively from the lower ends of substantially the same positions of the central portions thereof;

the outer square tube-like member and the inner square tube-like member of said case have shapes of a generally square in plan respectively, the bottom of the outer square tube-like member is coupled to and integrally with the outside wall of the inner square tube-like member by use of a coupling flange at a predetermined height position of the inner square tube-like member from the bottom thereof, and a pair of side walls opposed to each other of the inner square tube-like member has support axes for the holder formed integrally therewith at substantially the same positions of the central portions thereof, each holder support axis fitting in the corresponding one of the fitting holes of the holder and projecting outwardly;

said coupling flange has openings formed therein through which the pair of projections of the operation knob and the projections of the holder pass through with a play or gap therebetween, respectively; and

the base plate has a shape of a generally square in plan, the light source is disposed on the central portion of the top surface of the base plate, first and third switch elements are

aligned with one centerline passing through the light source and disposed on locations where distances from the light source are substantially the same with each other, second and fourth switch elements are aligned with a second centerline orthogonal to said centerline and disposed on locations where distances from the light source are substantially the same with each other, and these switch elements are selectively turned on/off by the pair of projections of the operation knob and the pair of projections of the holder.

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3. The swing type multi-way switch as set forth in claim 1, wherein both the holder and the case are made of a light opaque material.

4. The swing type multi-way switch as set forth in claim 2, wherein both the holder and the case are made of a light opaque material.